

Middle East & Africa Surgical Navigation Systems Market Forecast to 2030 - Regional Analysis - by Type (Optical Navigation System, Electromagnetic Navigation System, Hybrid Navigation System, Fluroscopy Navigation System, CT-Based Navigation System, and Others), Application (Orthopedic, ENT, Neurology, Dental, and Others), and End User [Hospitals and Ambulatory Surgical Centers (ASCs)]

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Abstracts

The Middle East & Africa Surgical Navigation Systems Market was valued at US\$ 60.07 million in 2022 and is expected to reach US\$ 118.77 million by 2030; it is estimated to record a CAGR of 8.9% from 2022 to 2030.

Advent of Robotic Navigation Drives Middle East & Africa Surgical Navigation Systems Market

Surgical robotic navigation provides benefits to surgeons in precisely aligning surgical instruments and screws. Additionally, the real-time visualization of instrument positioning and imaging compatibility enables high accuracy for surgeons while performing procedures through the navigation system. Several top companies plan to launch innovative robotic surgical navigation platforms. Globus Medical offers a Multifunctional Robotics+Navigation platform designed to improve surgical accuracy and optimize patient care with the use of robotics and navigation. Axis Spine Center's surgical navigation robot is connected to a camera with which the robot can process the view captured by the camera using the CT image in real time. The robot can also change position upon patients' movement to ensure a precise placement of the surgical

instrument. Despite developments in robotic surgical navigation, further studies are necessary to determine the efficacy, efficiency, and safety of new combined surgical robotic navigation systems/platforms.

Middle East & Africa Surgical Navigation Systems Market Overview

The Middle East & Africa surgical navigation systems market has been segmented into the Saudi Arabia, UAE, South Africa, and Rest of Middle East & Africa. The market growth in Saudi Arabia is high attributed to the government support for development of advanced healthcare infrastructure. The country holds second largest share for surgical navigation systems. The aforementioned factors are responsible for influential growth of surgical navigation systems market in the Middle East & Africa region.

In the UAE, robots are set to perform spinal surgeries. In May 2023, an Abu-Dhabi-based Burjeel Hospital announced the launch of "Excelsius-GPS (E-GPS) robot" developed by the US-based Globus Medical, a region's first robotic navigation platform ensuring accurate placement of implants for fast recovery time and more comfort for the patient undergoing surgery. The "Excelsius-GPS (E-GPS) robot" is the first robot that will be performing surgery at Burjeel Hospital; it is intended for spine surgery as it is a prevalent condition among the UAE population owing to obesity and lifestyle disorders due to less physical activity. Additionally, a surgical navigation system is highly adopted in the UAE to perform brain surgery. "Brain GPS" is one of the devices utilized by Abu Dhabi surgeons to cut a huge tumor from a patient's head. The "Brain GPS," coupled with an intra-operative nerve monitoring system, assists surgeons in observing brain function in real time, making brain surgery significantly safer for patients. Such innovations in the surgical navigation system are key factors responsible for the market growth.

Middle East & Africa Surgical Navigation Systems Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Surgical Navigation Systems Market Segmentation

The Middle East & Africa Surgical Navigation Systems Market is segmented based on type, application, end user, and country.

Based on type, the Middle East & Africa surgical navigation systems market is segmented into optical navigation system, electromagnetic navigation system, hybrid navigation system, fluoroscopy navigation system, CT-based navigation system, and

other navigation system. The electromagnetic navigation system segment held the largest Middle East & Africa surgical navigation systems market share in 2022.

In terms of application, the Middle East & Africa surgical navigation systems market is categorized into orthopedic, ENT, neurology, dental, and others. The orthopedic segment held the largest Middle East & Africa surgical navigation systems market share in 2022.

By end user, the Middle East & Africa surgical navigation systems market is bifurcated into hospitals and ASCs. The hospitals segment held a larger Middle East & Africa surgical navigation systems market share in 2022.

Based on country, the Middle East & Africa surgical navigation systems market is segmented into the UAE, South Africa, Saudi Arabia, and the Rest of Middle East & Africa. The UAE dominated the Middle East & Africa surgical navigation systems market in 2022.

B Braun SE, Corin Group, GE HealthCare Technologies Inc, Medtronic Plc, Siemens Healthineers AG, Stryker Corp, and Zimmer Biomet Holdings Inc are some of the leading companies operating in the Middle East & Africa surgical navigation systems market.

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